

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MICHAEL LEBRUN ET AL

SERIAL NO. 08/945,144

FILED: OCTOBER 14, 1997

FOR: MUTATED 5-ENOL PYRUVYL SHIKIMATE-
3-PHOSPHATE SYNTHASE, GENE CODING
FOR SAID PROTEIN AND TRANSFORMED
PLANTS CONTAINING SAID GENE



Art Unit: 1638

Examiner: D. Kruse

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Washington, D.C. 20231

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THIS 2nd DAY OF May 2002.

BY:

Jean M. Marshall
Jean M. Marshall

AMENDMENT

In response to the Official Action mailed November 20, 2001, please amend this
application as follows:

IN THE CLAIMS

Please amend claims 42, 43, 44, 47, 46, 48, 49, 50, 50, 51, 52 and 53 as follows:

42 (Amended). A modified nucleic acid molecule of plant origin encoding an EPSPS
enzyme, the modifications comprising:

a first modification of a coding sequence that normally encodes a threonine that is
located, relative to the gene from which it is derived, at position 102 of the amino acid sequence
of mature EPSPS sequence of SEQ ID NO: 3, to encode isoleucine in a mature plant EPSPS
sequence; and

a second modification of a coding sequence that normally encodes a proline that is
located, relative to the gene from which it is derived, at position 106 of the amino acid sequence

05/14/2002 RAE:BAHT 00000100 08945144

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02 FC:102

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